

# STAVIS SEAFOODS, INC.

## Ammonia Refrigeration Management Program STANDARD OPERATING PROCEDURES — HIGH STAGE RECIPROCATING COMPRESSOR OPERATION

<b>Safety Systems</b>			
Pressure relief valve	Internal device	Relieve excess refrigerant vapor pressure to compressor crankcase	250 psig Factory Set device
<b>Description</b>	<b>Item Number</b>	<b>Function</b>	<b>Position/Set point</b>
<b>Low suction pressure cutout, operator set point.</b>	Each Compressor Controller and/or the PLC control system monitors the low suction pressure setting.	The low suction pressure set point allows for compressor shut down at the set point.	10 hg alarm – 15 hg failure Note: The above setpoints are suggested for icemaker systems operating with NH3 refrigerant. Other types of systems (i.e. cold storage or air conditioning) using refrigerant differing from NH3 will likely be set differently THESE SETPOINTS WILL BE PLANT AND SYSTEM SPECIFIC
<b>High discharge pressure cutout, operator set point.</b>	Each Compressor Controller and/or the PLC control system monitors the high discharge pressure setting.	Alert personnel and/or protect the compressor from damage due to high discharge pressure by alarming and/or then shutting down compressor	Alarm 205 PSIG Shutdown 210 PSIG Note: The above setpoints are suggested for icemaker systems operating with NH3 refrigerant. Other types of systems (i.e. cold storage or air conditioning) using refrigerant differing from NH3 will likely be set differently THESE SETPOINTS WILL BE PLANT AND SYSTEM SPECIFIC
<b>Low lubrication oil pressure alarm and cutout</b>	Each Compressor Controller monitors the low lubrication oil pressure cut out	Protect the compressor from damage due to low lubrication oil pressure by shutting down compressor	Alarm 35 psi diff Shutdown 30 psi diff 90 Second delay